UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER
ABEDIN, SHANTO

ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
Office Action Summary	10/815,518	FULTZ ET AL.
	Examiner	Art Unit	
	SHANTO M Z ABEDIN	2136	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>03</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>01 January 1933</u>.
2a)☒ This action is **FINAL**.　　　　2b)☐ This action is non-final.
3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>1-33</u> is/are pending in the application.
　　4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5)☐ Claim(s) _____ is/are allowed.
6)☒ Claim(s) <u>1-33</u> is/are rejected.
7)☐ Claim(s) _____ is/are objected to.
8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.
10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.
　　Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
　　Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
　　a)☐ All　b)☐ Some * c)☐ None of:
　　　1.☐ Certified copies of the priority documents have been received.
　　　2.☐ Certified copies of the priority documents have been received in Application No. _____.
　　　3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
　* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)
2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3)☐ Information Disclosure Statement(s) (PTO/SB/08)
　　Paper No(s)/Mail Date _____.
4)☐ Interview Summary (PTO-413)
　　Paper No(s)/Mail Date. _____.
5)☐ Notice of Informal Patent Application
6)☐ Other: _____.

DETAILED ACTION

1.   This office action is in response to the communication filed on 12/27/2007.

2.   Claims 1-33 are currently presented for the examination.

3.   Claims 1-33 have been rejected.

Response to Arguments

4.   The applicant's arguments regarding 35 USC 103 (a) type rejections are fully considered,

however, found not persuasive since combination of references Upton and Beck et al does teach the

limitations set forth by the arguments.

In particular, firstly, reference Upton teaches wherein the token contains user credentials

encoded as a platform and application independent primitive data type (Fig 4; Par [0104], [0114],

[0130], [0150]; Claims 1,12; generic/ token type credentials), and reference Beck et al teaches the

authentication authority further operable to generate a token, and wherein the token contains user

credentials encoded as a platform and application independent primitive data type (Par [0019]-

[0024]; generating the user id token that would be used for authentication).

Secondly, the examiner respectfully disagrees with the applicant's arguments regarding the

properness of combining references Upton and Beck. In response to the applicant's arguments that

combination of Upton and Beck would result in an insecure environment, the examiner notes,

references do not suggest teaching away from each others or such deficiencies, and the test for

obviousness is not whether the features of a secondary reference may be bodily incorporated into

the structure of the primary reference; nor is it that the claimed invention must be expressly

suggested in any one or all of the references. Rather, the test is what the combined teachings of the

references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d

413, 208 USPQ 871 (CCPA 1981).

5.   However, upon further search and examination, new grounds of rejection are found, and the

applicant's arguments are moot in view of new grounds of rejection presented in this office action.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness

rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in
> section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are
> such that the subject matter as a whole would have been obvious at the time the invention was made to a person
> having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the
> manner in which the invention was made.

6.   Claims   1-3, 9-12, 24, 28 and 29 are rejected under 35 USC 103 (a) as being unpatentable

over Upton (US 20030097574 A1) in view of Beck et al (2004/0088349 A1) further in view of

O'Donnell et al (US 2004/0117615 A1)

Regarding claim 1, Upton discloses a system to provide application-to-application

enterprise security, the system comprising:

a security application program interface coupled to a client application operable on a first

operating system to provide a security credential (Par [0061]-[0074], [0127]-[0130]; Claims 1 and

12; client application/ interface);

an authentication authority (Par [0115],[0128]-[0130], [0145]-[0147]; security services;

authentication/ authorization SPI) receiving the security credential from the security application

program interface, the authentication authority further operable to communicate the token to the

security application program interface where the security credential is valid, wherein the token

contains user credentials encoded as a platform and application independent primitive data type

(Fig 4; Par [0104], [0114], [0130], [0150]; Claims 1,12; service provider interface/ SPI; checking

public/ password type, or generic/ token type credentials).

a store maintaining data validating the security credential, the store in

communication with the authentication authority to validate the security credential (Par [0065]-

[0066]; storing credential/ passwords);

an application program interface coupled to the client application, the application program

interface operable to communicating regarding the validating of the token (Par [0061]-[0074],

[0104], [0114], [0130], [0150]; claims 1,12; client application/ interface using credentials/ token

for mapping/ authentication) and

a server application operable on a second operating system to receive the token from the

application program interface, the server application communicating with

the authentication authority to validate the token to enable the client application to

use services of the server application (Par [0104], [0114]-[0116], [0130]; Claims 1,12; 3rd party

validating/ authenticating credentials).

Although Upton discloses use of a token as credentials (Par [0150]), and it would be further

logically obvious to an ordinary skill in art to generate the token , Upton fails to disclose expressly

the authentication authority further operable to generate a token.

However, Beck et al discloses the authentication authority further operable to generate a

token (Par [0019]-[0024]; generating the user id token that would be used for authentication).

In the case position for inherency is not found supportable, the examiner notes that the

reference O'Donnell et al discloses the authentication authority further operable to generate a token

(Par [0061]-[0070]; Claims 1-40; access/ application server generating, and sending authentication

token to user upon validation of the credential). O'Donnell et al further discloses an authentication

authority receiving the security credential from the security application program interface, the

authentication authority further operable to communicate the token to the security application

program interface where the security credential is valid, wherein the token contains user credentials

encoded as a platform and application independent primitive data type (Par [0061]-[0070]; Claims

1-40).

O'Donnell et al , Beck et al and Upton are analogous art because they are from the same

field of authentication for network/ enterprise services. At the time of invention, it will be obvious

to a person with ordinary skill in the art to combine the teaching of O'Donnell et al and/ or Beck et

al with Upton to design the system wherein the authentication authority further operable to

generate a token in order to facilitate an anonymous token based authentication.

Regarding claim 9, it is rejected applying as same motivation and rationale as applied

above rejecting claim 1, furthermore, Upton discloses A method for providing application-to-

application enterprise security, the method comprising:

communicating a security credential from a client application operable on a first operating

system to an authentication authority (Par [0061]-[0074], [0127]-[0130], [0130], [0150]; Claims

1,12; client application/ interface providing credentials; service provider interface/ SPI

authenticating public/ password type, or generic/ token type credentials);

communicating information related to the security credential between the authentication

authority and a data store to determine whether the security credential is valid; wherein the token

contains user credentials encoded as a platform and application independent primitive data type

(Par [0104], [0114], [0130], [0150]; Claims 1,12; service provider interface/ SPI; validating/

authenticating credentials);

communicating the token to the client application; providing, by the client application, the

token to a server application, the server application operable on a second operating system (Par

[0061]-[0074], [0127]-[0130], [0130], [0150]; Claims 1,12; client application/ interface providing

credentials; service provider interface/ SPI authenticating public/ password type, or generic/ token

type credentials) ; and

validating, by the server application, the token before providing access to services of the

server application by the client application (Par [0104], [0114]-[0116], [0130]; Claims 1,12; 3rd

party validating/ authenticating credentials).

Upton fails to disclose expressly generating a token by the authentication authority when

the security credential is valid.

However, Beck et al discloses generating a token by the authentication authority when the

security credential is valid (Par [0024]; generating the token that would be used for authentication).

In the case position for inherency is not found supportable, the examiner notes that the

reference O'Donnell et al discloses the authentication authority further operable to generate a

token, wherein the token contains user credentials encoded as a platform and application

independent primitive data type (Par [0061]-[0070]; Claims 1-40; access/ application server

generating, and sending authentication token to user upon validation of the credential). O'Donnell

et al further discloses communicating the token to the client application; and validating by the

server application, the token before providing access to server application by the client application

(Par [0061]-[0070]; Claims 1-40).

Regarding claim 28, it recites the limitations of claims 1 and 9, therefore, it is rejected

applying as above rejecting claim 1 and 9.

Regarding claim 2, Upton discloses the system of Claim 1, wherein the server application

further comprises: an application program interface to communicate with the application program

interface of the client application (Par [0061]-[0074], [0127]-[0130]; Claims 1 and 12; client

application/ interface); and a security application program interface to communicate with the

authentication authority (Par [0115],[0128]-[0130], [0145]-[0147]; security services;

authentication/ authorization SPI).

Regarding claim 3, Beck et al discloses wherein the server application is operable to cache

the token after validating the token with the authentication authority such that when the client

application requests service of the server application, via the application program interfaces of the

client application, the server application uses the cached token to validate the client application (Par

[0018]-[0120]; using generated/ stored token for authentication).

Regarding claims 10-12 and 29, they recite the limitations of claims 1-3, 9 and 28,

therefore, they are rejected applying as above rejecting claims 1-3, 9 and 28.

Regarding claim 24, <u>Upton</u> discloses wherein the security credential is further defined as including a password and user identification (Par [0061]-[0074], [0150]).

7.   Claims 8 and 15 are rejected under 35 USC 103 (a) as being unpatentable over <u>Upton </u>(US 20030097574 A1) in view of <u>Beck et al</u> (2004/0088349 A1) further in view of <u>O'Donnell et al</u> (US 2004/0117615 A1) further in view of <u>Laferriere et al</u> (US 2005/0188212 A1).

Regarding claim 8, modified <u>Beck et al -Upton</u> system fails to disclose wherein validating the token by the authentication authority includes determining whether the authentication authority created the token.

However, <u>Laferriere et al</u> discloses wherein validating the token by the authentication authority includes determining whether the authentication authority created the token (Par [0012]-[0023]; claims1,14).

<u>Laferriere et al</u>   and <u>Upton</u> are analogous art because they are from the same field of authentication for network/ enterprise services. At the time of invention, it will be obvious to a person with ordinary skill in the art to combine the teaching of <u>Laferriere et al</u>   with modified <u>O'Donnell et al -Beck et al -Upton</u> to design the system wherein validating the token by the authentication authority includes determining whether the authentication authority created the token in order to provide credential security through authenticating the credential provider.

Regarding claim 15, it recites the limitations of claim 8 and 9, therefore, it is rejected applying as above rejecting claims 8 and 9.

8.   Claims 26-27 are rejected under 35 USC 103 (a) as being unpatentable over Upton (US

20030097574 A1) in view of Beck et al (2004/0088349 A1) further in view of O'Donnell et al (

US 2004/0117615 A1) further in view of Favazza et al (US 20040139319 A1).

Regarding claim 26, Upton discloses data store is a certificate authority (Par [0076]-

[0077]), however, modified O'Donnell et al -Beck et al -Upton system fails to disclose wherein

the security credential is an X.509 certificate.

However, Favazza et al discloses w wherein the security credential is an X.509 certificate

(Par [0039], [0050]).

Favazza et al   and Upton are analogous art because they are from the same field of

authentication for network/ enterprise services. At the time of invention, it will be obvious to a

person with ordinary skill in the art to combine the teaching of Favazza et al   with modified

O'Donnell et al -Beck et al -Upton to design the system wherein the security credential is an

X.509 certificate to provide alternative secure credentials.

Regarding claim 27, it is rejected applying as above rejecting claim 26, furthermore, Upton

discloses communicating the X.509 certificate from the authentication authority to the certificate

authority (Par [0073], [0076]-[0077]); validating the certificate by the certificate authority; and

communicating validation information to the authentication authority (Par [0073], [0076]-[0077]).

however, modified Beck et al -Upton system fails to disclose wherein the security

credential is an X.509 certificate.

However, Favazza et al discloses   wherein the security credential is an X.509 certificate

(Par [0039], [0050]).

9.   Claims 1-7, 9-14, 16-25 and 28-33 are rejected under 35 USC 103 (a) as being unpatentable

over Upton (US 20030097574 A1) in view of Beck et al (2004/0088349 A1) further in view of

Bhat et al (US 2003/0200465 A1)

Regarding claim 1, Upton discloses a system to provide application-to-application

enterprise security, the system comprising:

a security application program interface coupled to a client application operable on a first

operating system to provide a security credential (Par [0061]-[0074], [0127]-[0130]; Claims 1 and

12; client application/ interface);

an authentication authority (Par [0115],[0128]-[0130], [0145]-[0147]; security services;

authentication/ authorization SPI) receiving the security credential from the security application

program interface, the authentication authority further operable to communicate the token to the

security application program interface where the security credential is valid, wherein the token

contains user credentials encoded as a platform and application independent primitive data type

(Fig 4; Par [0104], [0114], [0130], [0150]; Claims 1,12; service provider interface/ SPI; checking

public/ password type, or generic/ token type credentials).

a store maintaining data validating the security credential, the store in

communication with the authentication authority to validate the security credential (Par [0065]-

[0066]; storing credential/ passwords);

an application program interface coupled to the client application, the application program

interface operable to communicating regarding the validating of the token (Par [0061]-[0074],

[0104], [0114], [0130], [0150]; claims 1,12; client application/ interface using credentials/ token

for mapping/ authentication) and

  a server application operable on a second operating system to receive the token from the

application program interface, the server application communicating with

the authentication authority to validate the token to enable the client application to

use services of the server application (Par [0104], [0114]-[0116], [0130]; Claims 1,12; 3rd party

validating/ authenticating credentials).

  Although Upton discloses use of a token as credentials (Par [0150]), and it would be further

logically obvious to an ordinary skill in art to generate the token , Upton fails to disclose expressly

the authentication authority further operable to generate a token.

  However, Beck et al discloses the authentication authority further operable to generate a

token (Par [0019]-[0024]; generating the user id token that would be used for authentication).

  In the case position for inherency is not found supportable, the examiner notes that the

reference Bhat et al discloses the authentication authority further operable to generate a token

(Figure 6; Par 0030- 0079; especially Par 0035, 0066, 0077-0079; Claims 1-6; server system having

token manager generating token). Bhat et al further discloses an authentication authority

receiving the security credential from the security application program interface, the authentication

authority further operable to communicate the token to the security application program interface

where the security credential is valid, wherein the token contains user credentials encoded as a

platform and application independent primitive data type (Par 0030-0079; claims 1-5; especially

Par 0077-0079; token including string/ password, user identifying information; sending/ assigning

token to application interface to authenticate user for particular application).

Bhat et al , Beck et al and Upton are analogous art because they are from the same field

of authentication for network/ enterprise services. At the time of invention, it will be obvious to a

person with ordinary skill in the art to combine the teaching of Bhat et al and/ or Beck et al   with

Upton to design the system wherein the authentication authority further operable to generate a

token in order to facilitate an anonymous token based authentication.

Regarding claim 9, it is rejected applying as same motivation and rationale as applied

above rejecting claim 1, furthermore, Upton discloses A method for providing application-to-

application enterprise security, the method comprising:

communicating a security credential from a client application operable on a first operating

system to an authentication authority (Par [0061]-[0074], [0127]-[0130], [0130], [0150]; Claims

1,12; client application/ interface providing credentials; service provider interface/ SPI

authenticating public/ password type, or generic/ token type credentials);

communicating information related to the security credential between the authentication

authority and a data store to determine whether the security credential is valid; wherein the token

contains user credentials encoded as a platform and application independent primitive data type

(Par [0104], [0114], [0130], [0150]; Claims 1,12; service provider interface/ SPI; validating/

authenticating credentials);

communicating the token to the client application; providing, by the client application, the

token to a server application, the server application operable on a second operating system (Par

[0061]-[0074], [0127]-[0130], [0130], [0150]; Claims 1,12; client application/ interface providing

credentials; service provider interface/ SPI authenticating public/ password type, or generic/ token

type credentials) ; and

validating, by the server application, the token before providing access to services of the

server application by the client application (Par [0104], [0114]-[0116], [0130]; Claims 1,12; 3rd

party validating/ authenticating credentials).

Upton fails to disclose expressly generating a token by the authentication authority when

the security credential is valid.

However, Beck et al discloses generating a token by the authentication authority when the

security credential is valid (Par [0024]; generating the token that would be used for authentication).

In the case position for inherency is not found supportable, the examiner notes that the

reference Bhat et al discloses the authentication authority further operable to generate a token,

wherein the token contains user credentials encoded as a platform and application independent

primitive data type (Par 0031-0078; token)

Regarding claim 28, it recites the limitations of claims 1 and 9, therefore, it is rejected

applying as above rejecting claim 1 and 9.

Regarding claim 2, Upton discloses the system of Claim 1, wherein the server application

further comprises: an application program interface to communicate with the application program

interface of the client application (Par [0061]-[0074], [0127]-[0130]; Claims 1 and 12; client

application/ interface); and a security application program interface to communicate with the

authentication authority (Par [0115],[0128]-[0130], [0145]-[0147]; security services;

authentication/ authorization SPI).

>   ***Regarding claim 3,*** <u>Beck et al</u> discloses wherein the server application is operable to cache

the token after validating the token with the authentication authority such that when the client

application requests service of the server application, via the application program interfaces of the

client application, the server application uses the cached token to validate the client application (Par

[0018]-[0120]; using generated/ stored token for authentication).

>   ***Regarding claim 4,*** modified <u>Beck et al -Upton</u> system fails to disclose wherein the

token generated by the authentication authority comprises a string including at least a portion of the

security credential.

>   However, <u>Bhat et al</u> discloses wherein the token generated by the authentication authority

comprises a string including at least a portion of the security credential (Par [0031]-[0077]).

>   <u>Bhat et al</u> and <u>Upton</u> are analogous art because they are from the same field of

authentication for network/ enterprise services. At the time of invention, it will be obvious to a

person with ordinary skill in the art to combine the teaching of <u>Bhat et al</u> with modified <u>Beck et al</u>

<u>-Upton</u> to design the system wherein the token generated by the authentication authority comprises

a string including at least a portion of the security credential in order to provide alternative token

generation method.

Regarding claim 5 and 6, <u>Bhat et al</u> discloses wherein at least a portion of the token is in Extensible Markup Language format (Par [0030]; token as a part of URL; using XML). Furthermore, the examiner takes an official notice on that at the time of invention use of XML for defining credential or token was well known in art. Therefore, it would be obvious to a person of ordinary skill in art to define token in XML format so that it can be used in XML type URL access requests.

Regarding claim 7, <u>Beck et al</u> discloses wherein the token includes information related to an expiration date of the token (Par [0003]-[0005]; claims 11, 20). Furthermore, <u>Bhat et al</u> discloses wherein the token includes information related to an expiration date of the token (Par 0031-0077).

Regarding claims 10-12 and 29, they recite the limitations of claims 1-3, 9 and 28, therefore, they are rejected applying as above rejecting claims 1-3, 9 and 28.

Regarding claims 13-14, 16-17, 19 and 21-23, they recite the limitations of claims 4-7 and 9, therefore, they are rejected applying as above rejecting claims 4-7 and 9.

Regarding claim 18, <u>Bhat et al</u> discloses wherein the token includes a portion of the security credential in a string format (Par 0066-0078)

Regarding claim 20, <u>Bhat et al</u> discloses wherein the token is encrypted (Par 0066-0078; encrypted token).

Regarding claim 24, <u>Upton</u> discloses wherein the security credential is further defined as including a password and user identification (Par [0061]-[0074], [0150]). *Furthermore,* <u>Bhat et al</u> discloses wherein the security credential is further defined as password and user identification (Par 0035, 0066, 0077)

Regarding claim 25, it recites the limitations of claim20 and 24, therefore, it is rejected applying as above rejecting claims 20 and 24.

Regarding claims 30-33, they recite the limitations of claims 4-7 and 28, therefore, they are rejected applying as above rejecting claims 4-7 and 28.

Conclusion

10.   References have not applied to reject, however found closely related to the claimed invention are:

<u>Silhavy et al</u> (US 2005/0108521 A1) discloses access control in a client (database) application based on client token generated previously by server/ security service.

<u>Perlin et al</u> (US 2006/01743334 A1) discloses access control to the application environment based on security tokens comprising application and user information.

11.   Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for response to this action is set to expire in 3 (Three) months and 0 (Zero) days from the mailing date of this letter. Failure to respond within the period for response will result in ABANDOMENT of the application (see 35 U.S.C 133, M.P.E.P 710.02(b)).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shanto M Z Abedin whose telephone number is 571-272-3551. The examiner can normally be reached on M-F from 9:00 AM to 5:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Moazzami Nasser, can be reached on 571-272-4195. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shanto M Z Abedin

Examiner, A.U. 2136

/Nasser G Moazzami/

Supervisory Patent Examiner, Art Unit 2136